

## TO KILL OFF GRASSHOPPERS

Burning Over Grass Lands Is Sometimes Practical—Poison Bran Mash Is Also Effective.

(By A. L. LOVETT, Oregon Experiment Station.)

Grasshoppers feed normally on the native grasses. Where forage crops are planted, the hoppers readily adapt themselves to the new food. If an abundance of young hoppers is observed in the spring, the fields and grasslands where they occur should be dragged with a hopper-dozer. This hopper-dozer is a long, shallow galvanized or wooden trough, which is filled with crude oil and along the back side is fitted a back stop about three feet high. When it is dragged through the field, the hoppers attempt to jump over it. They strike against the back stop and fall into the crude oil.

Burning over the grass lands before the hoppers get their wings is sometimes practical.

The poison bran mash is an effective poison for grasshoppers, and has been used successfully for their control in a great number of cases. Be sure to add the salt, since grasshoppers appear especially fond of this material. Broadcast the mash over an infected field or sow in drill rows at right angles to their course of travel, as they enter the field. The poison bran is prepared as follows:

Coarse Bran.....16 pounds  
Paris Green.....½ pound  
Salt.....2 ounces  
Cheap Sirup.....1 quart  
Warm water to make a coarse, crumbly mash.

Do not get the mash sloppy. It should fall apart readily in the hand after pressing together. If lead arsenate is used instead of paris green, increase the amount one-half. The quantity given is sufficient to broadcast over one acre, or scattered in drill rows, will extend over a greater area.

## WEED SEEDS ARE EXPENSIVE

Many a Farmer Pays Dearly for Privilege of Planting Something He Would Be Better Rid Of.

(By S. B. NUCKOLS, Colorado Experiment Station.)

Many farmers are paying as much as a dollar per pound for the opportunity to plant, on the farm, several pounds of weed seed each year. Others do not pay as much for the opportunity to sow the seed but the cost of eradicating these weeds costs them many hours of labor and no small amount of money. The manner in which they avail themselves of the opportunity varies, but to give a specific and true example—an actual occurrence.

Two samples of alfalfa seed are offered for sale, one for \$20 per hundred and the other for \$16 per hundred. Sample No. 1 tests as follows:

Weed seeds, none.  
Chaff and dirt, none.  
Germination, 94 per cent perfect.

Sample No. 2 tests:  
Weed seed, seven per cent, much of which is sweet clover which is not very noticeable to the average farmer.  
Chaff and dirt, two per cent.  
Germination, 80 per cent perfect.

If you buy 100 pounds of No. 1 you get 94 pounds of seed that will grow at a cost of \$20, or a cost of \$21.28 for 100 pounds of perfect seed.

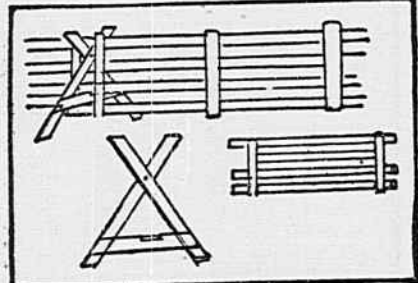
For No. 2 you pay \$16 for 71 pounds of perfect seed, or \$22.54 for 100 pounds of perfect seed.

In the above case you pay \$1.28 for the privilege of planting seven pounds of weed seed on your farm. Even greater variations than the above can be given. Every man should know how good the seed is that he is planting.

## MOVABLE FENCE FOR SHEEP

Temporary Arrangement Made of Boards Solidly Nailed Together, Will Keep Animals In.

A movable fence for soiling sheep is made in panels as seen in the illustration. The panels are ten feet long.



Temporary Fence for Sheep.

made of four-inch boards solidly nailed together. After this fence is once put up, sheep or hogs are not likely to overturn it. A fence three and one-half feet high will turn most flocks.

## BUYING NEW COWS FOR DAIRY

Animals Who Have Lost Capacity for Handling Home-Grown Roughage Should Be Avoided.

In buying new cows for the dairy one should buy from farmers who practice rational methods of feeding, preferably from those who do not feed too much grain and rich concentrates.

Many cows have been fed so much grain that they have lost their capacity for handling home-grown roughage.

Such cows are no longer profitable dairy producers and should be avoided when buying new cows for the dairy.

## TWO EXCELLENT CROPS

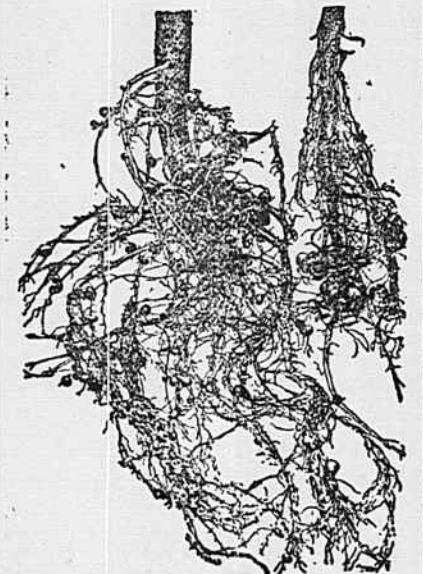
Benefit of Use of Leguminous Crops Just Appreciated.

Aggressive Campaign Waged for Past Few Years in Interest of Better Farming Has Not Been Without Its Reward.

(By T. PARKER.)

The soy bean, also known as Japan pea and soja bean, is one of the many good things that have come to us from Asia. The writer first grew it in 1872, but its real worth and value have not been appreciated by us until within the last few years.

As a forage crop, especially for hogs, it is exceptionally fine. For best



Roots of Soy Bean, Showing Nodules.

results the hogs should be turned on them about the time the bean in the pod has reached its full size, and before it begins to harden while the leaves are still green. The hogs will first eat the leaves, then the remainder of the plant until there is only the hard stalk left.

Soy beans require good preparation of the soil. Slipshod methods usually result in a failure of the crop. They may either be sown broadcast at the rate of a bushel per acre or planted in rows and cultivated. The latter plan gives best results. In purchasing seed, buy only bright, plump seed, the vitality of which is guaranteed.

Soy bean hay is of the finest and most nutritious quality. When cut at the proper stage of growth and well cured, it is relished by all kinds of stock.

The velvet bean is an important crop for the purpose of soil improvement, especially in cotton-growing territory. This plant has been grown in Florida and other southern states for a number of years. It is a rank-growing grass, the vines often growing fifteen or more feet in length under favorable conditions. The seed can



Roots of Velvet Bean, Showing Nodules.

be broadcasted or planted in rows, but best results will be obtained when planted in rows and cultivated. The rows should be four or five feet apart and the hill two to three feet apart in the rows. Plant about three beans to the hill.

## ERRORS IN FEEDING PROTEIN

Plenty of Right Kind of Feed Is Required to Run Milk Machine to Its Full Limit.

It is a great mistake to give the cow indifferent care until her milk flow has greatly diminished, then try, by feeding her heavy, to get her back to her full flow.

The dairyman who withholds protein foods until the cows have cleaned up all roughage will soon learn the folly of his ways when he adds the figures of his milk checks.

A worse mistake than high protein feeding is made by many farmers. That mistake is not feeding enough of anything.

The man who goes into the dairy business thinking that selecting good cows and compounding balanced rations is all he needs to understand is sure to wake up a sadder and wiser man.

It requires plenty of feed to run the cow machine to its full limits. This limit varies more than most people seem to think.

## OYSTERS

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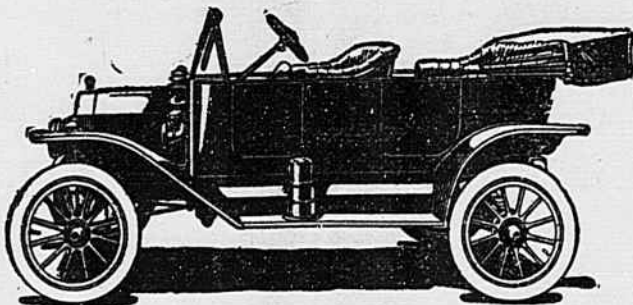
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